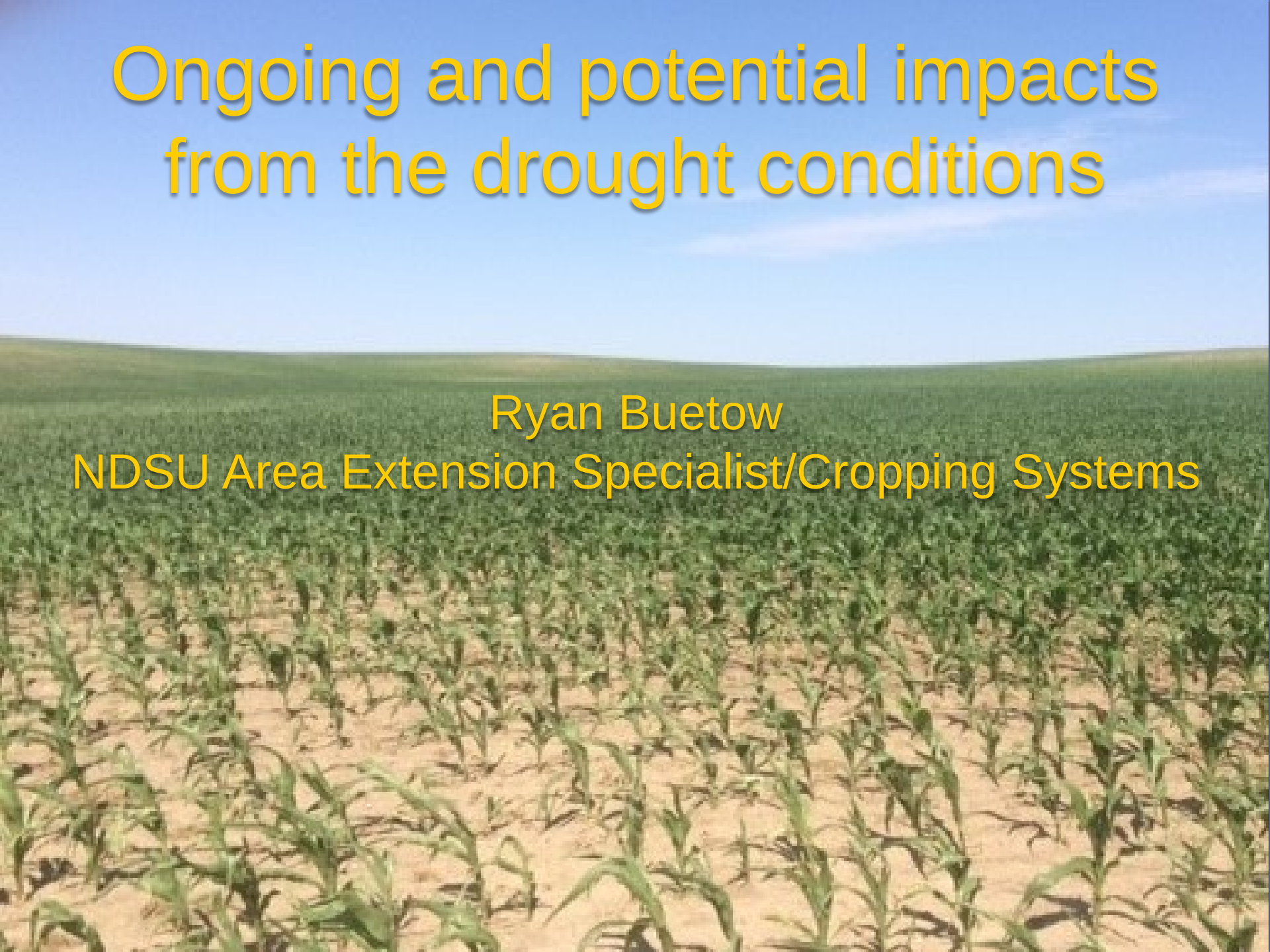
Ongoing and potential impacts from the drought conditions



Ryan Buetow
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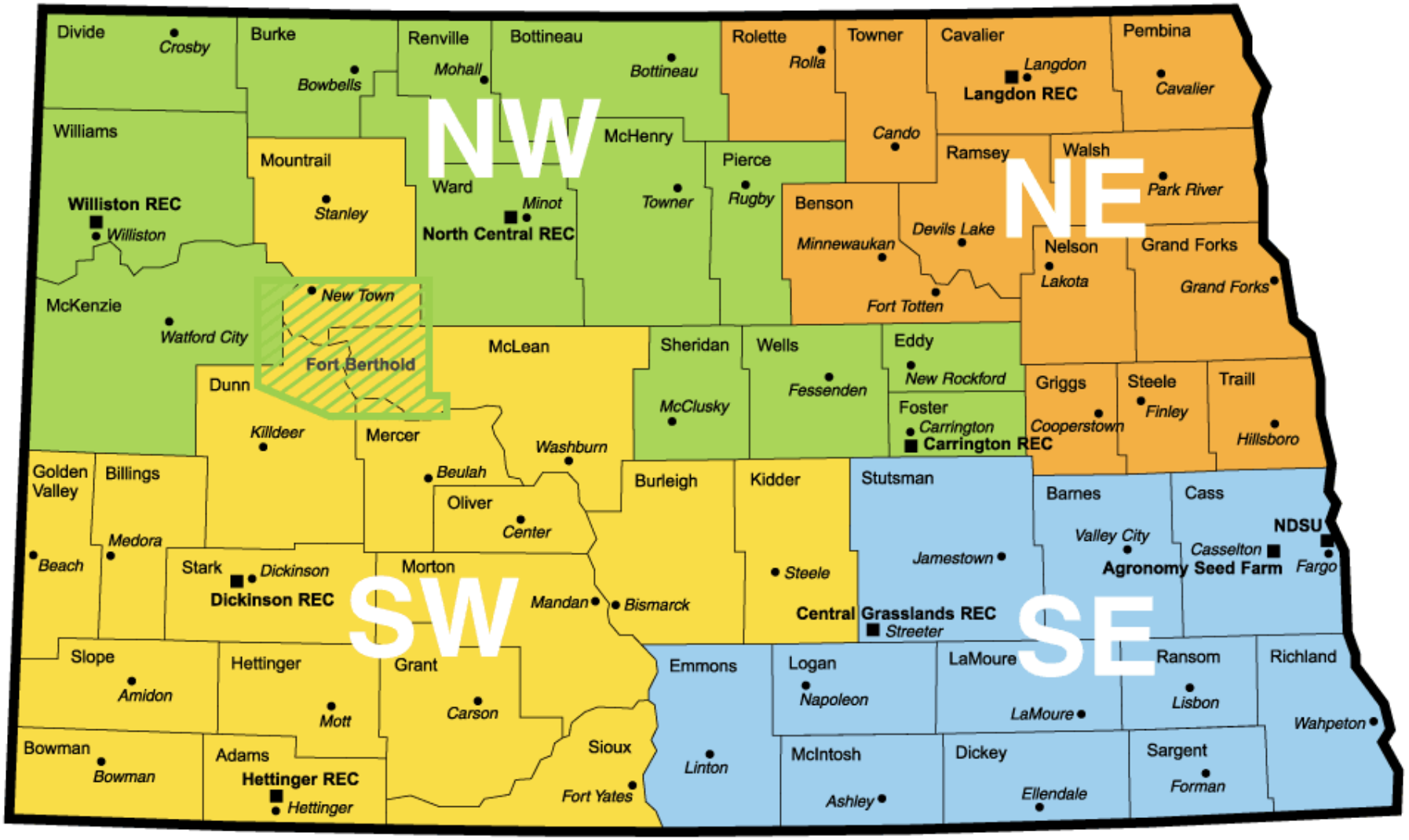

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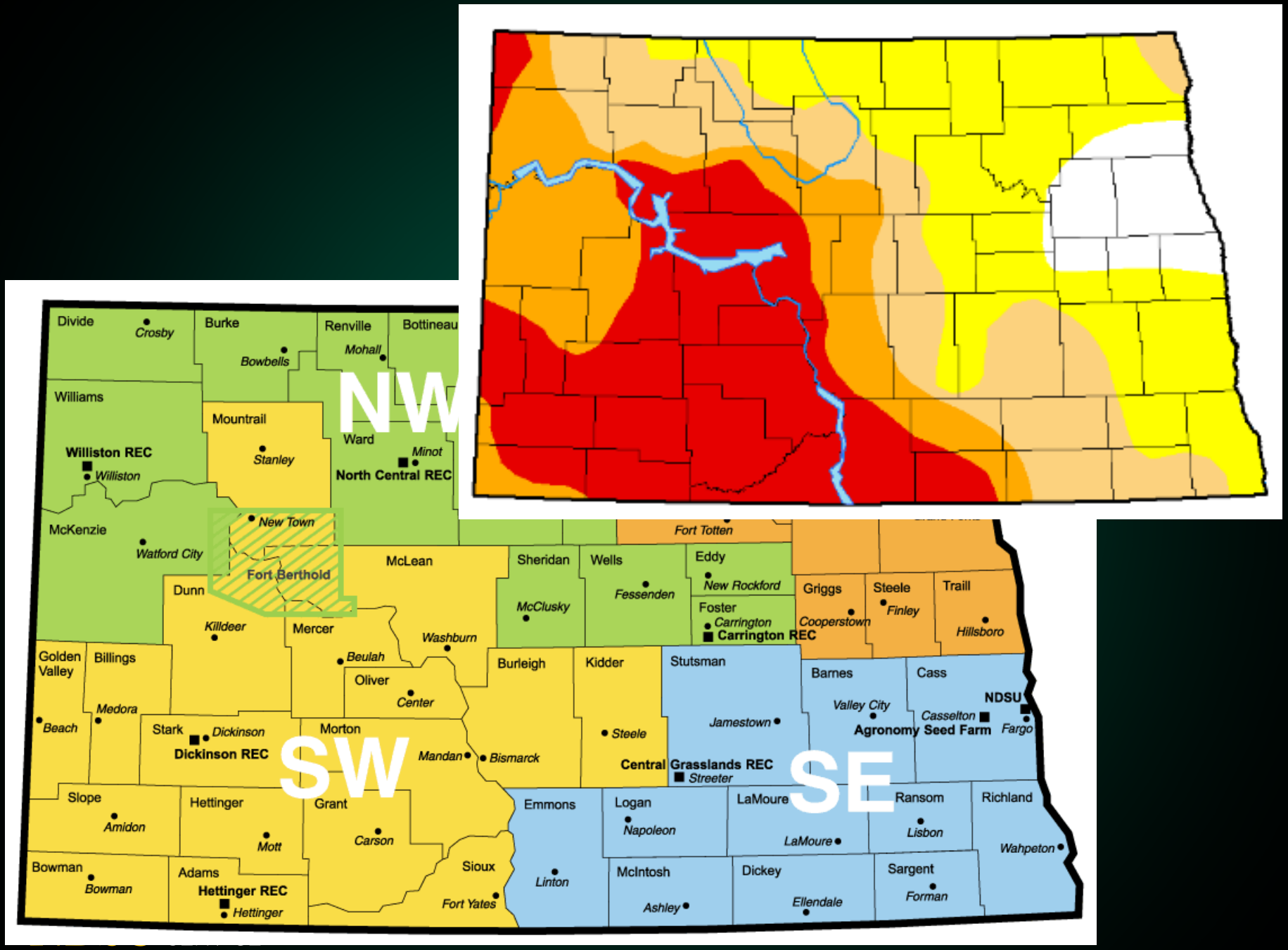
NW
SW
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Divide
Crosby
Burke
Bowbells
Renville
Mohall
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Williams
Williston REC
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Mountrail
Stanley
Ward
Minot
North Central REC
McKenzie
Watford City
New Town
Fort Berthold
Dunn
Killdeer
McLean
Mercer
Washburn
Beulah
Sheridan
McClusky
Wells
Fessenden
Fort Totten
Eddy
New Rockford
Foster
Carrington
Carrington REC
Griggs
Cooperstown
Steele
Finley
Traill
Hillsboro
Golden Valley
Billings
Medora
Beach
Oliver
Center
Burleigh
Kidder
Steele
Central
Stutsman
Jamestown
Grasslands REC
Streeter
Barnes
Valley City
Cass
NDSU
Casselton
Agronomy Seed Farm
Fargo
Stark
Dickinson
Dickinson REC
Morton
Mandan
Bismarck
Slope
Amidon
Hettinger
Mott
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Carson
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Ransom
Lisbon
Richland
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Bowman
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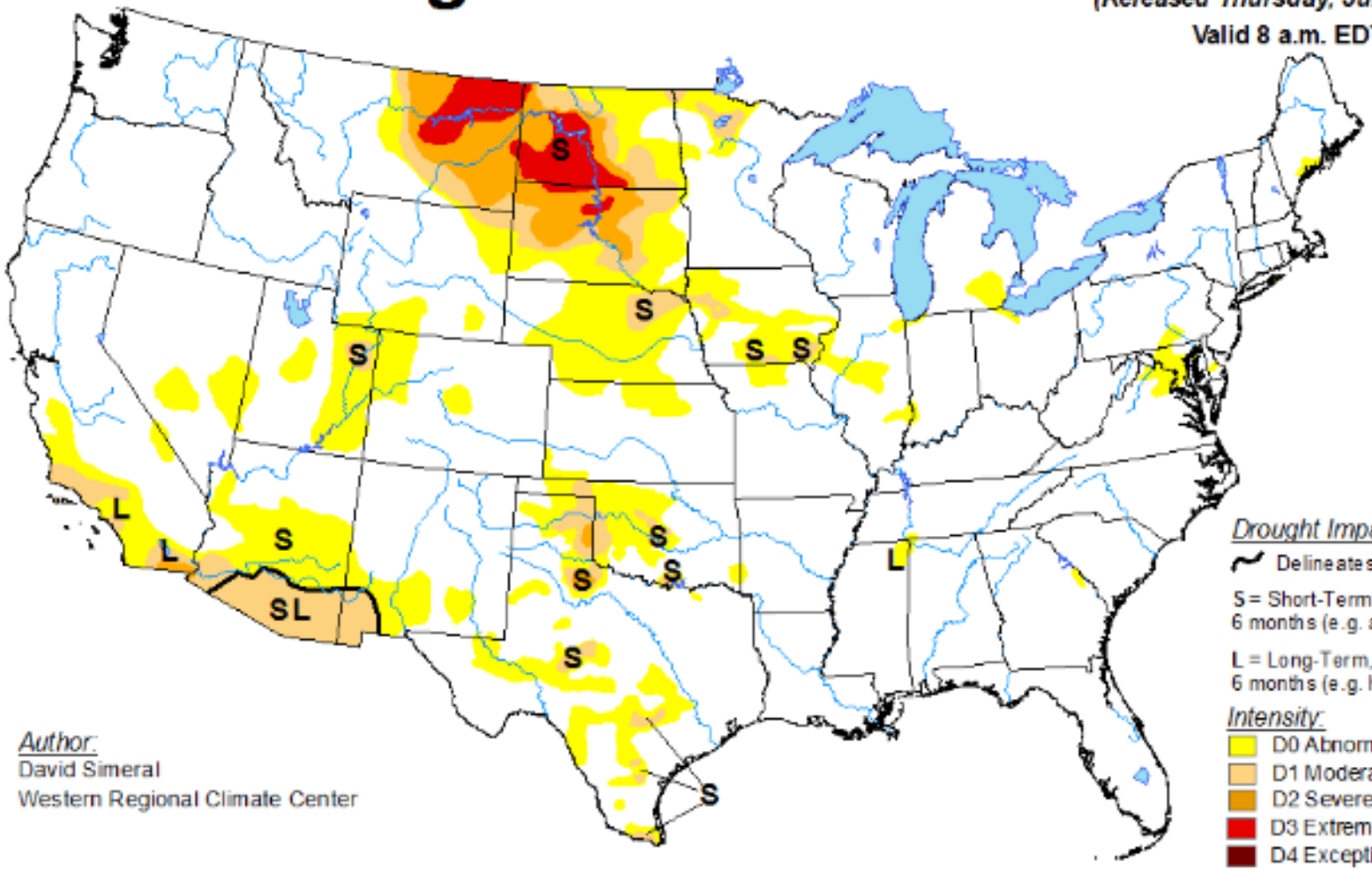
Adams
Hettinger REC
Hettinger
Sioux
Fort Yates
McIntosh
Ashley
Dickey
Ellendale
Sargent
Forman

U.S. Drought Monitor

July 4, 2017

(Released Thursday, Jul. 6, 2017)

Valid 8 a.m. EDT



Author:
David Simeral
Western Regional Climate Center

Drought Impact Types:

Delineates dominant impacts

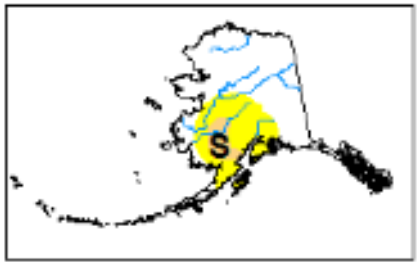
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)

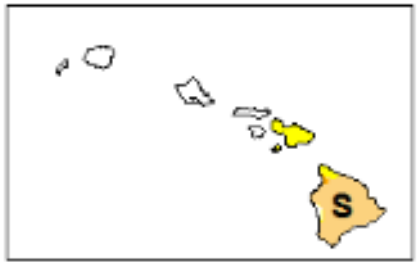
L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

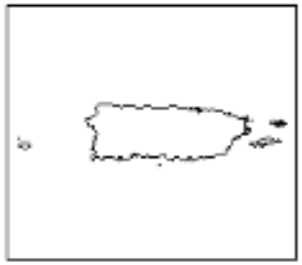
Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.







USDA NDMC

http://droughtmonitor.unl.edu/

Weather conditions

- Very little rainfall
  - Extremely variable
  - Dickinson, ND has received 2.98 inches since April 15th
  - Some farmers nearby have received nearly 2 inches during single rain events
- Heavy winds
- Warm temperatures

Crop conditions

- Early planted crops were in soil for long time before receiving moisture
  - Contributed to inconsistency within fields
- Frost events
- Insect issues
- Some fields look surprisingly decent
  - Variable
- Crops matured faster than usual and are very short

Murphy’s Law

- Anything that can go wrong, will go wrong

Frost-damaged corn near Zeeland

Greg Endres

Area Extension Specialist/Cropping Systems

NDSU Carrington Research Extension Center

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Impacts

- Many small grain fields being baled or grazed
- Reduction in fertilizer and herbicide sales
- Ranchers in need of forages and fresh water
  - Issues with nitrates
  - Many selling off large portions of herd

Looking forward

- There are some crops that still look okay
  - Differing soil types and rainfall amounts
  - Early planting helped some
  - If we don’t receive rain soon that optimism won’t last long
- High heat in forecast and lack of moisture will result in heavy yield losses
- Shortage of forages come fall?
- This is not a new issue for this region

Questions?

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